

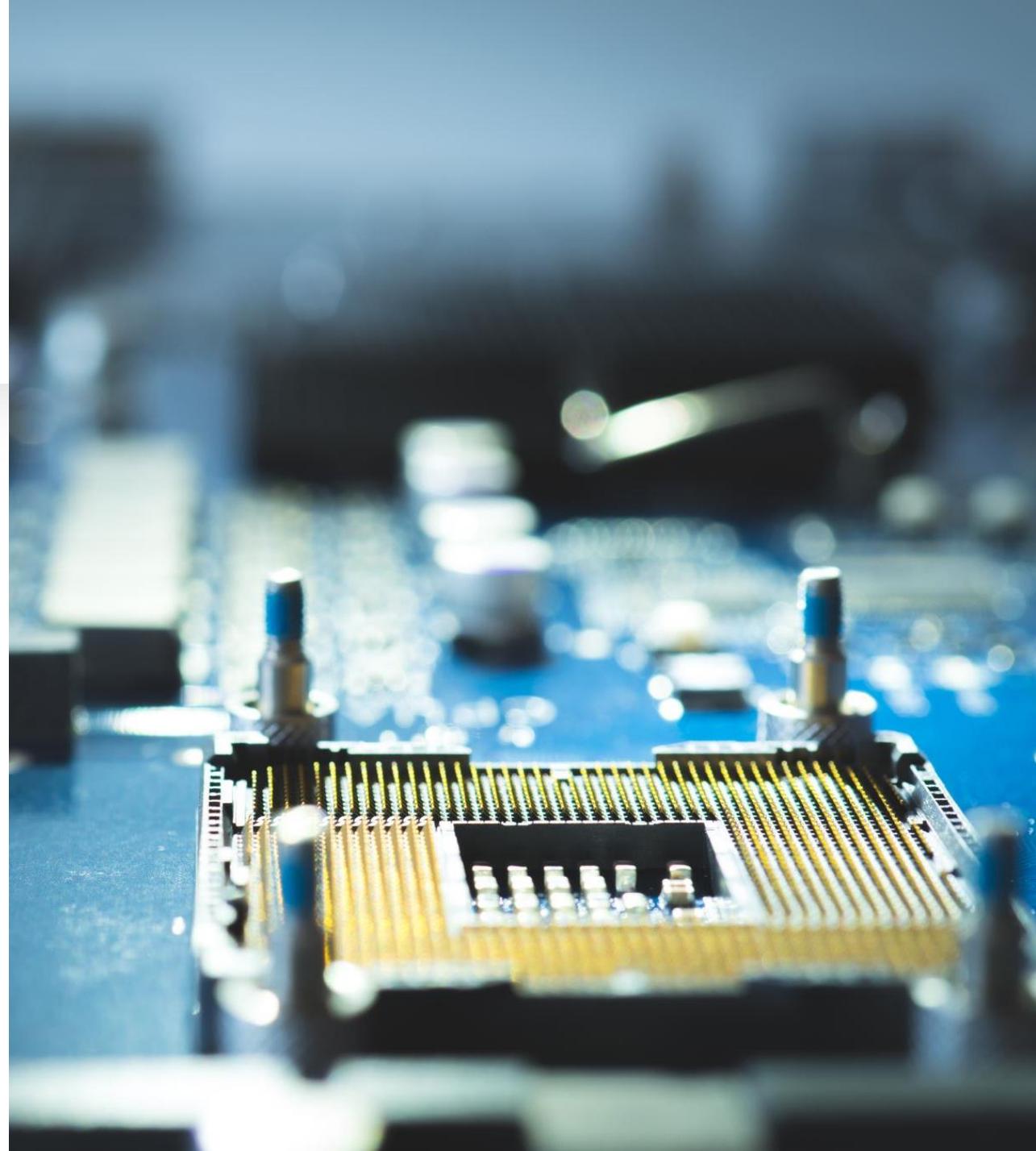


Basic Computing

# Mankato Computer Technology University

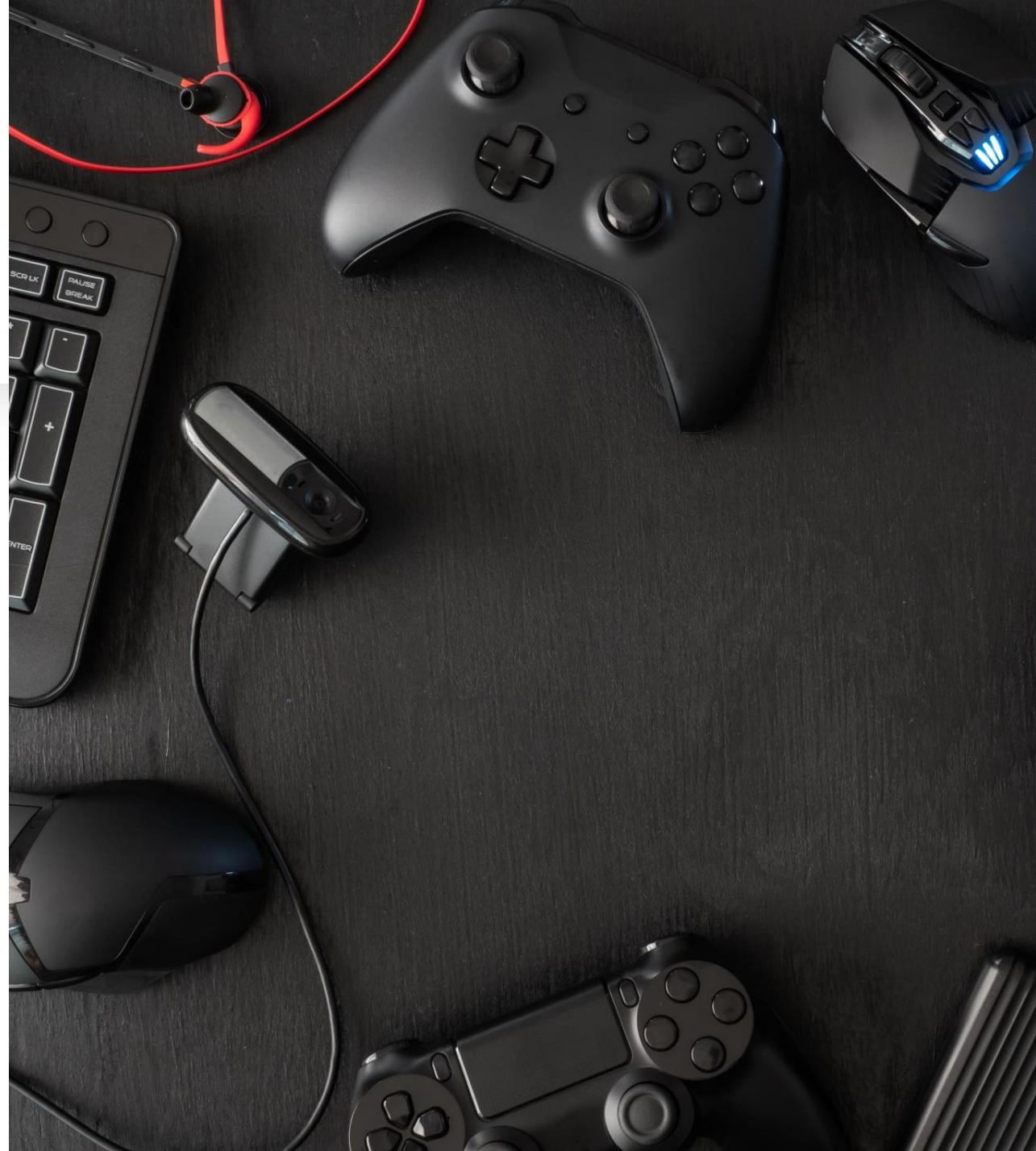
# What is a computer?

- A computer is an electronic device that processes data according to a set of instructions.
- Components
  - Hardware
  - Software



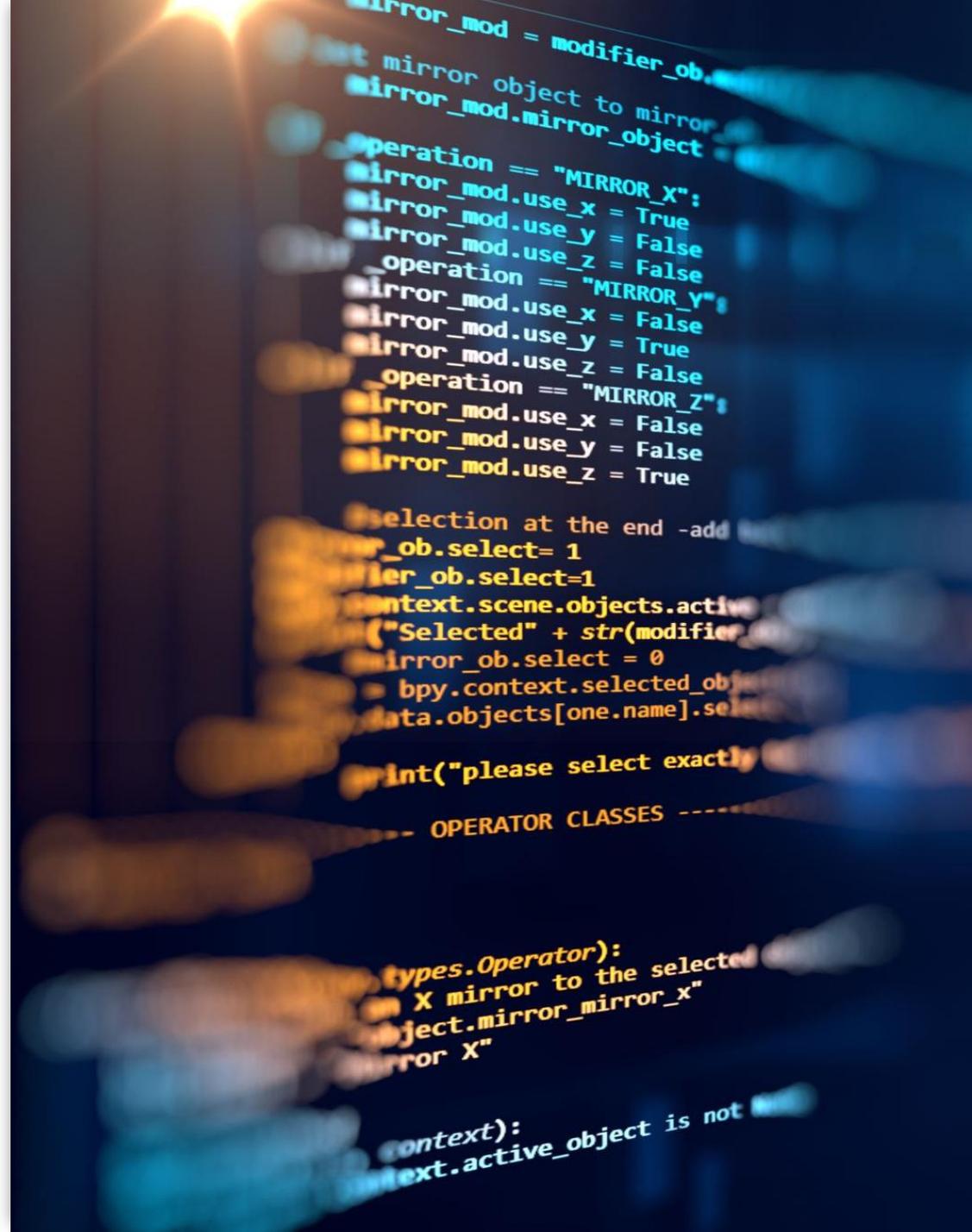
# Basic Computer Hardware

- Input Devices: Keyboard, Mouse, Scanner
- Output Devices: Monitor, Printer, Speakers
- Processing Unit: Central Processing Unit (CPU)
- Storage Devices: Hard Drive, SSD, USB



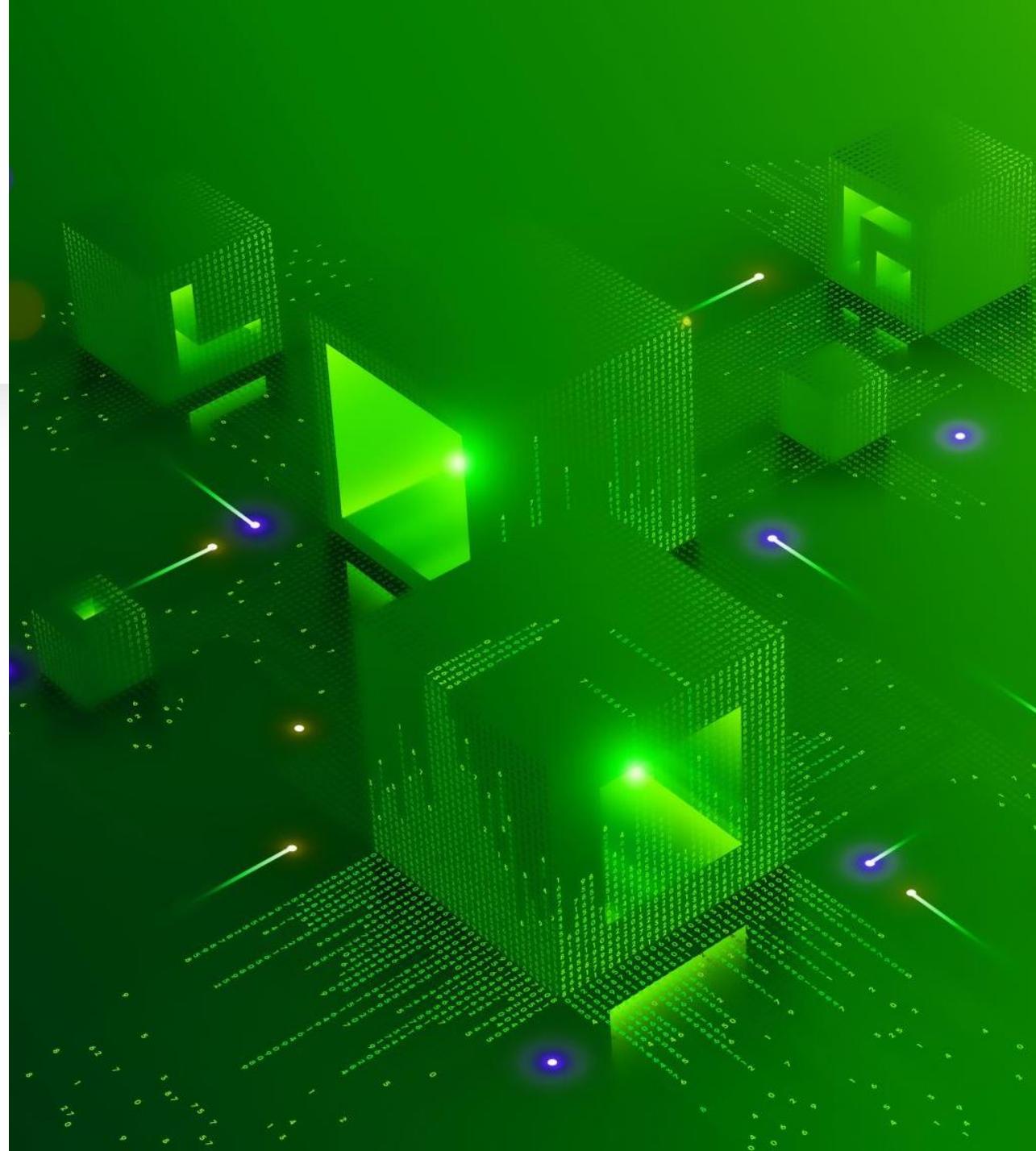
# Basic Computer Software

- System Software: Operating System (e.g., Windows, macOS, Linux)
- Application Software: Word Processors, Browsers, Games
- Utility Software: Antivirus, Disk Cleanup



# How Computers Work

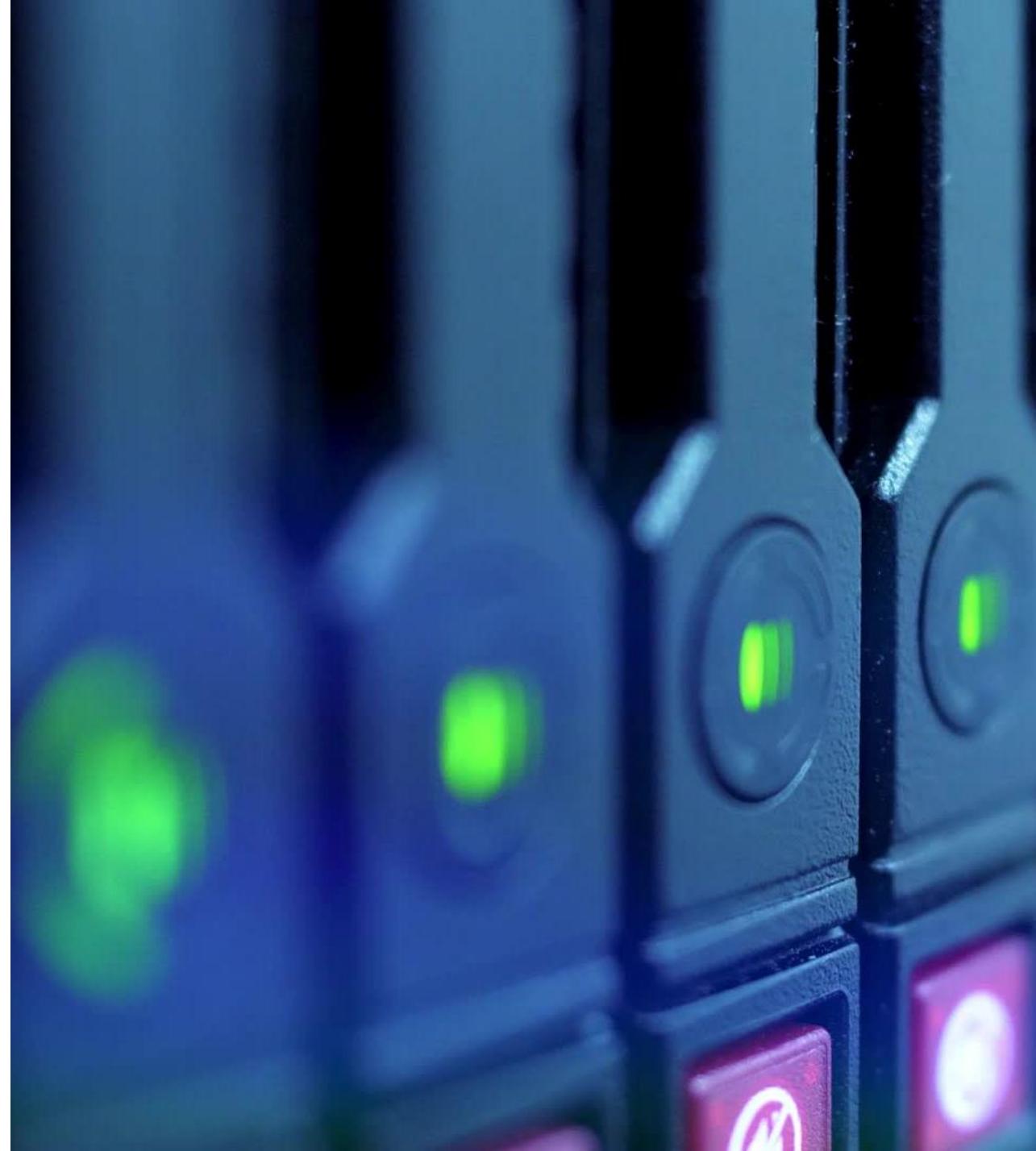
- Input: Data entered into the computer
- Processing: CPU processes data
- Output: Information displayed or printed
- Storage: Data saved for later use



# Types of Computers

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- **Personal Computers (PCs)**
- **Laptops**
- **Tablets**
- **Smartphones**
- **Servers**



# Introduction to Operating Systems

- **Definition:** Software that manages computer hardware and software resources
- **Examples:** Windows, macOS, Linux
- **Functions:**
  - Managing files and directories
  - Running applications
  - Handling input and output operations



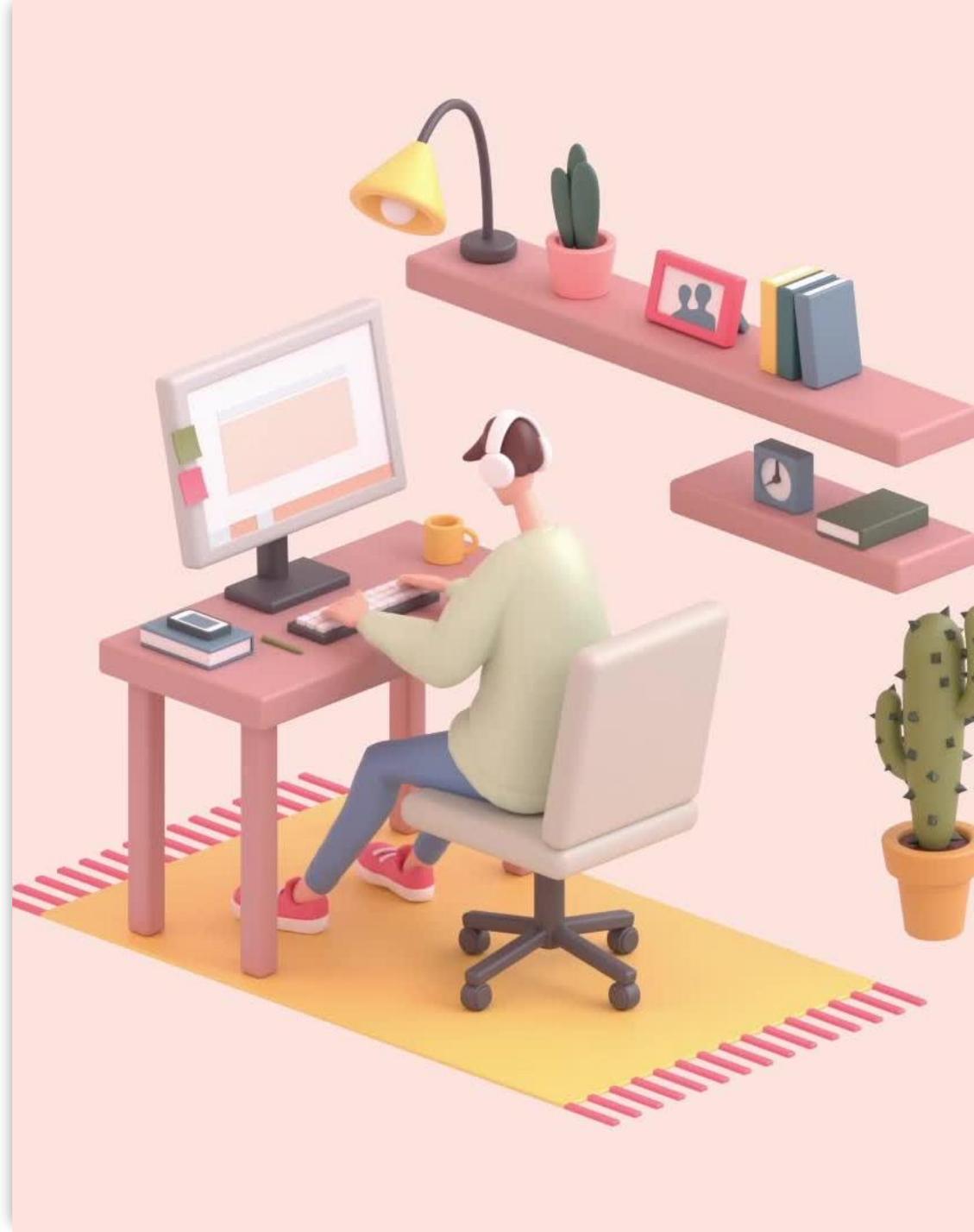


# Basic Computer Operations

- **Starting Up and Shutting Down**
- **Navigating the Desktop**
- **Opening and Closing Applications**
- **Managing Files and Folders**

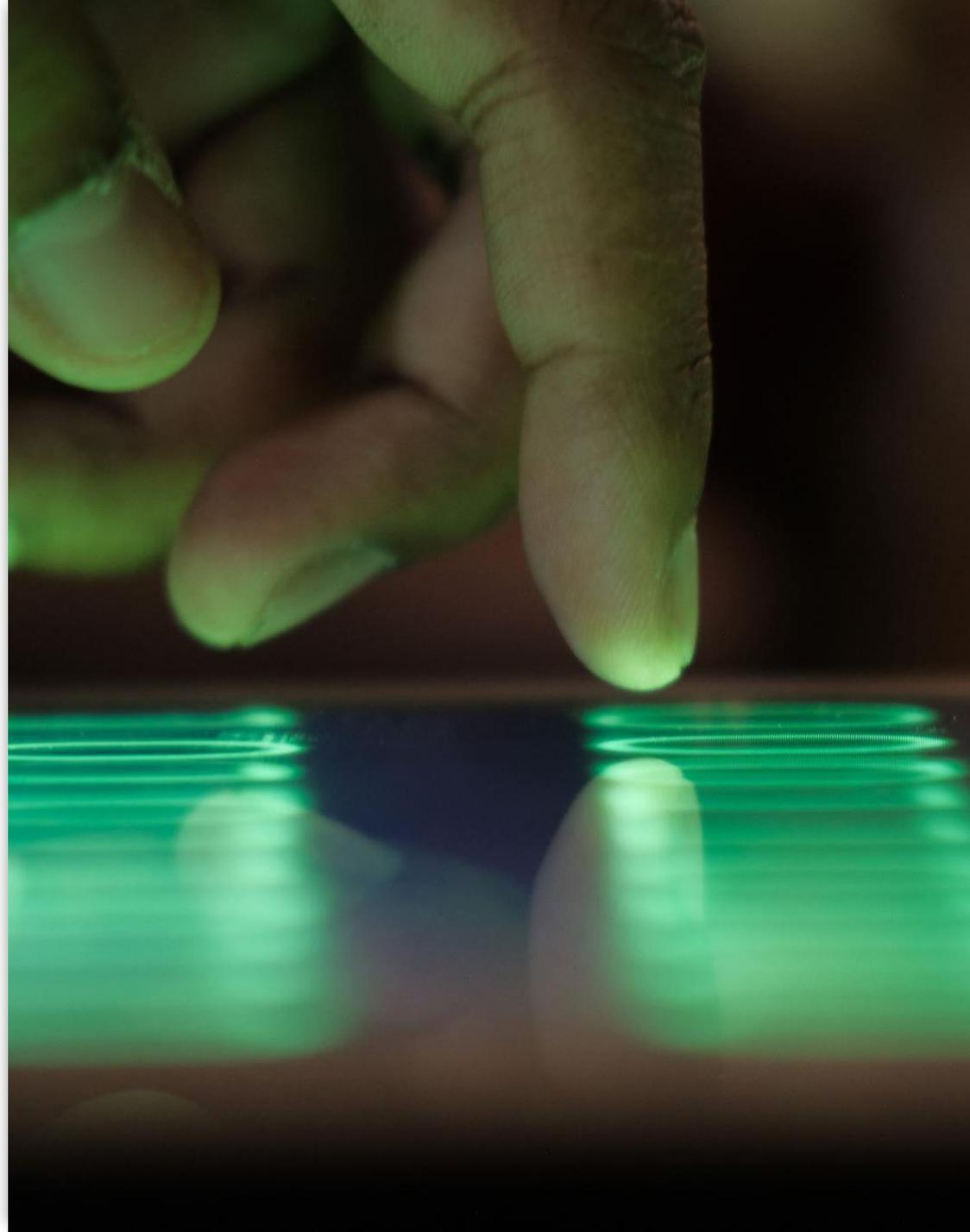
# Basic Computer Skills

- Keyboarding Skills. ...
- Using Web Browsers. ...
- Working with Microsoft Office. ...
- File Maintenance and Organization. ...
- Email Etiquette. ...
- Using the Internet for Research.



# Keyboarding Skills

- There are thousands of free websites like [Typing Club](#) and [Dance Mat Typing](#) designed specifically to improve keyboarding skills.



# Using Web Browsers

- Computer-literate students understand how to use major browsers like Chrome, Firefox, Edge, or Safari and can switch between them naturally.
- They can add websites to “Bookmarks” or “Favorites” and understand how to clear browser history, cache, and cookies to resolve performance issues.



# Working with Microsoft Office

- Microsoft Office is one of the world's most popular business solutions with and is widely used in both the academic and professional fields.
- Visit the [Microsoft Office training page](#) to find tutorials for these and other useful programs.



# Microsoft Word.

- Word is arguably the most popular word processing and document creator program available.
- Create, format, save, and edit documents in Word
- Add tables and graphics to documents
- Adjust margins and spacing
- Check word counts
- Create headers and footers
- Use track changes



# Excel.

- Students should be able to use this spreadsheet program to organize information, sort and filter data, and create charts and graphs.



# PowerPoint.

- Mastery of this slide program allows students to make effective presentations as part of reports and in their future workplaces.
- Students should be able to create basic presentations with text, pictures, and objects.



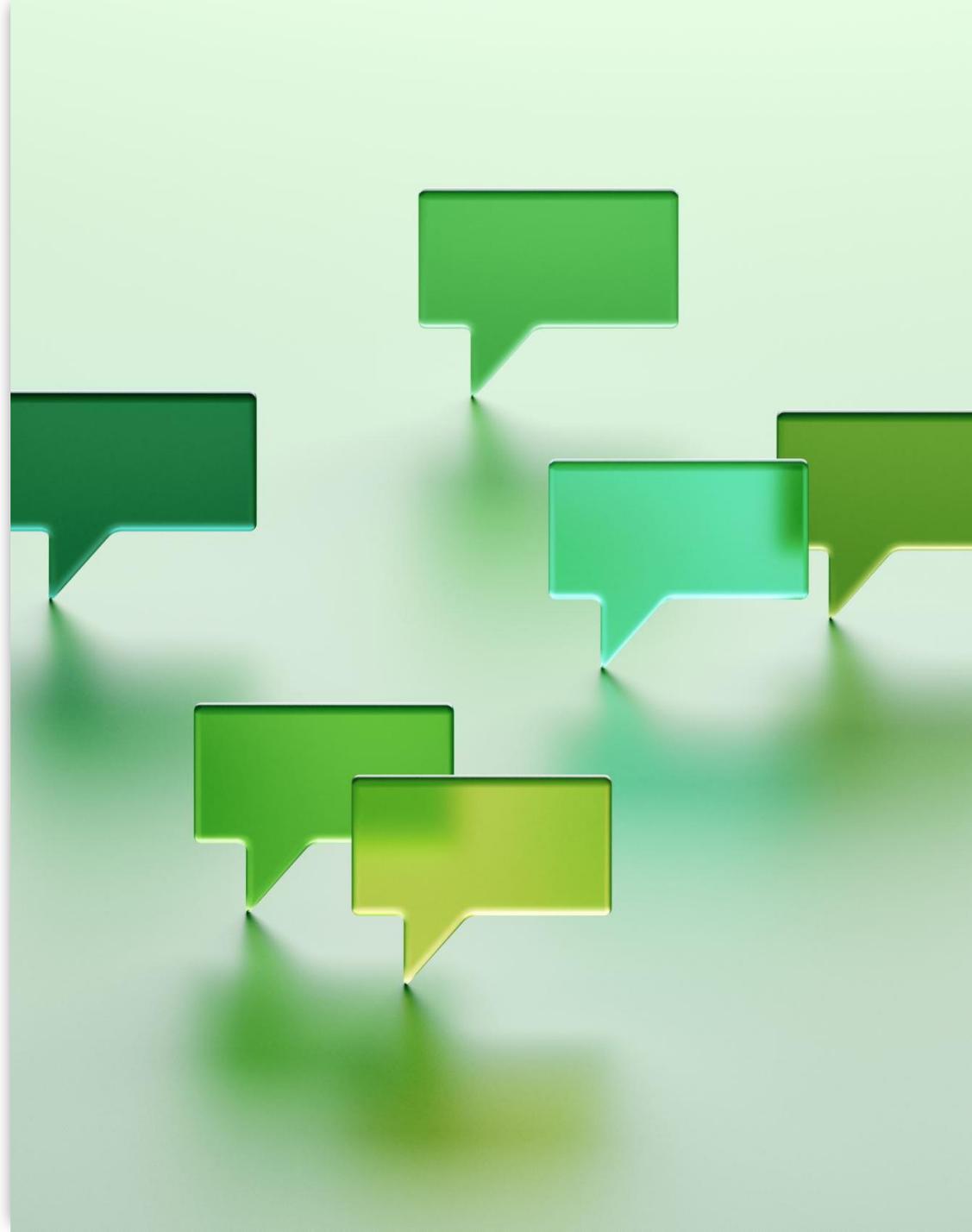
# File Maintenance and Organization

- Create and label folders
- File content in folders and know that each folder may hold individual files or additional folders with subfolders.
- Read file suffixes and interpret their importance (e.g., that a file ending in .docx will open in Microsoft Word, and .xls will open in Microsoft Excel )
- Use external drives, such as flash drives
- Transfer and share cloud files, such as via Dropbox, Microsoft's OneDrive, and Google Drive
- Visit the [computer maintenance checklist](#) to learn more about computers, organization, and help keep their device in excellent condition.



# Email Etiquette

- Computers offer many communication channels, such as email, chat, and social media posts.
- To use these channels correctly, you need to understand how messages should change depending on the context.
- For example, you must understand that writing an email is very different from writing a text message.



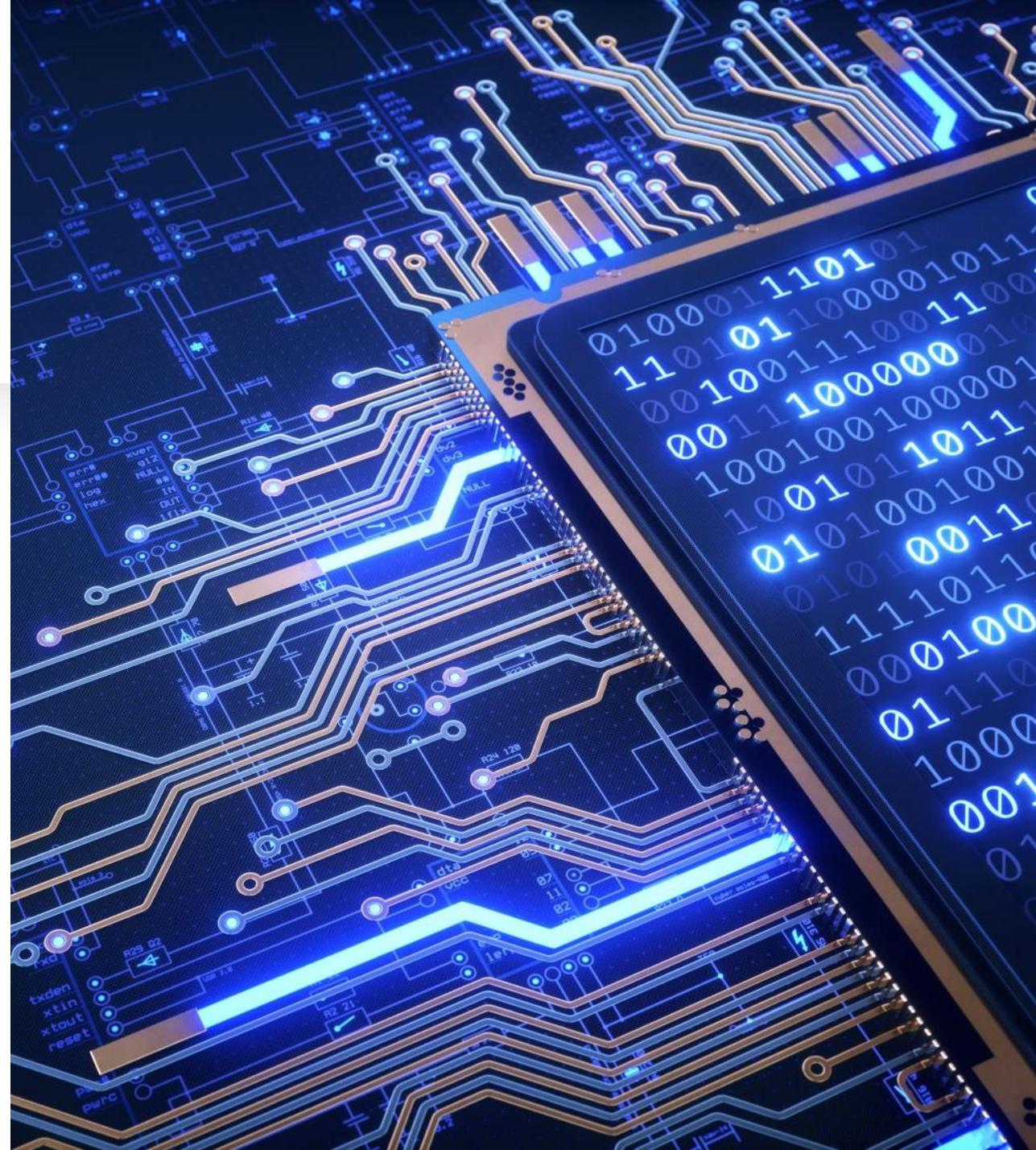
# Using the Internet for Research

- Conducting an effective search with a search engine (e.g., Google, Bing, Yahoo) using advanced search commands
- Evaluating web resources for authority, currency, purpose, and content
- Identifying legitimate resources
- Fact-checking information
- Understanding copyrights, licenses, and plagiarism in a digital environment and how to cite online sources in papers



# Basic Computer Skills: Troubleshooting

- The ability to troubleshoot and fix common computer issues is a must-have for everyone who uses a computer regularly.
- [Quick Tech Fixes for Kids infographic.](#)
- It provides solutions for the 16 most common problems reported, such as a non-loading website, a frozen program, and a disappearing toolbar.
- Tape a copy of the infographic to your desk.



# Digital Safety and Security



- Turn on the “Do Not Track Tool” on your browsers.
- Make strong passwords and never share them.
- Never click on emails or texted links from unfamiliar senders.
- Learn to look closely at emails, texts, landing pages, etc., to spot misspellings, bad grammar, and other [signs of potential phishing](#).
- Keep personal information personal (don’t chat/send photos to strangers).
- Ask permission before signing up for anything.
- Know how to recognize ads and don’t click on them.
- Respect age limits on all social networking sites.
- Set privacy settings on all social networking sites.

# Internet Basics

- **What is the Internet?:** A global network of computers
- **Web Browsers:** Software to access the internet (e.g., Chrome, Firefox)
- **Basic Internet Functions:**
  - Browsing websites
  - Sending emails
  - Downloading files



# Importance of Cybersecurity

- **Definition:** Protecting computers and data from unauthorized access
- **Common Threats:** Viruses, Phishing, Malware
- **Basic Practices:**
  - Using strong passwords
  - Installing antivirus software
  - Keeping software up to date

